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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/552,085	10/04/2005	Matthias Fehr	EIS-1097/500593.20090	4150
26418 REED SMITH,	7590 02/17/200 LLP	EXAMINER		
ATTN: PATENT RECORDS DEPARTMENT 599 LEXINGTON AVENUE, 29TH FLOOR NEW YORK, NY 10022-7650			LU, ZHIYU	
			ART UNIT	PAPER NUMBER
			2618	
			MAIL DATE	DELIVERY MODE
			02/17/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/552,085	FEHR ET AL.
Office Action Summary	Examiner	Art Unit
	ZHIYU LU	2618
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPI WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO .136(a). In no event, however, may a reply be tild d will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 17 This action is FINAL . 2b) ☐ The 3) ☐ Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pr	
Disposition of Claims		
4) Claim(s) 28-37 is/are pending in the application 4a) Of the above claim(s) is/are withdress 5) Claim(s) is/are allowed. 6) Claim(s) 28-37 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/ Application Papers 9) The specification is objected to by the Examination of the drawing(s) filed on is/are: a) according to application and/	awn from consideration. or election requirement. ner.	Examiner.
Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre	e drawing(s) be held in abeyance. Se ction is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Bures * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat ority documents have been receiv au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	ate

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/17/2008 has been entered.

Response to Arguments

2. Applicant's arguments, see REMARKS, filed 12/17/2008, with respect to the rejection(s) of claim(s) 28-36 under 103 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of AAPA, Courtney et al., and Anzai et al.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claim 37 is rejected under 35 U.S.C. 112, second paragraph, as failing to set forth the subject matter which applicant(s) regard as their invention. Evidence that claim 37 fail(s) to correspond in scope with that which applicant(s) regard as the invention can be found in the

reply filed 10/04/2005. In that paper, applicant has stated that it is possible to tune transmitter or receiver with the use of circulators/HF isolators, and this statement indicates that the invention is different from what is defined in the claim(s) because:

In claim 37, applicant claimed "the circulator or the HF isolator are able to be tuned so as to tune it to a given frequency range or frequency response". However, the filed specification does not disclose the circulator or the HF isolator being tunable. But it discloses that the transmitter or receiver being tunable by replacing desired circulator or HF isolator.

For examination purpose, the Examiner takes the interpretation of the filed specification.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 28, 30-35 and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant Admitted Prior Art (hereafter AAPA, citation refers to published specification) in view of Courtney et al. (US Patent#6469658) and Anzai et al. (US Patent#5793331).

 Regarding claim 28, AAPA teaches a wireless microphone system comprising:

at least one antenna unit having an antenna and a circulator or an HF isolator being connected to the antenna (paragraph 0008).

But, AAPA does not expressly disclose said antenna and said circulator or said HF isolator being arranged in a common housing of the antenna unit; and wherein the antenna unit can be plugged in or screwed on such that the antenna unit is replaceable as a unit.

Courtney et al. teach in a RF transmitter where said antenna (36 of Fig. 2) and said circulator (24 of Fig. 2) being arranged as interchangeable components (Fig. 2, column 7 lines 20-29).

AAPA and Courtney et al. disclose the claimed invention except for said antenna and said circulator being arranged in a common housing of the antenna unit. It would have been obvious to one having ordinary skill in the art at the time the invention was made to put said antenna and said circulator into a common housing for replacement, since it has been held that forming in one piece an article which has formally been formed in two pieces and put together involves only routine skill in the art. Howard v. Detroit Stove Works, 150 U.S. 164 (1893).

Anzai et al. teach antenna unit can be screwed on such that the antenna unit is replaceable as a unit (column 1 lines 55-60).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate replacing antenna unit by screwing process taught by Anzai et al. into the wireless microphone system of AAPA and Courtney et al., in order replace antenna unit.

Regarding claim 30, AAPA and Courtney et al. teach a pocket transmitter microphone as explained in response to claim 28 above.

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Regarding claim 31, AAPA and Courtney et al. teach a hand transmitter microphone as explained in response to claim 28 above.

Regarding claim 33, AAPA and Courtney et al. teach a wireless microphone device as explained in response to claim 28 above.

Regarding claim 35, AAPA and Courtney et al. teach a HF transmitter as explained in response to claim 28 above.

Regarding claims 32 and 34, AAPA and Courtney et al. teach the limitations of claims 28 and 33.

Courtney et al. teach wherein the antenna unit is tuned to a given frequency range (column 7 lines 22-24).

Regarding claim 37, AAPA and Courtney et al. teach the limitation of claim 28.

Courtney et al. teach wherein the circulator or the HF isolator are able to be tuned so as tune it to a given frequency range or frequency response (column 7 lines 22-24).

5. Claim 29 is rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant Admitted Prior Art (hereafter AAPA, citations refer to published specification) in view of

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Courtney et al. (US Patent#6469658), Anzai et al. (US Patent#5793331), and Kawasaki et al. (US2002/0197957).

Regarding claim 29, AAPA, Courtney et al., and Anzai et al. teach the limitation of claim 28.

AAPA, Courtney et al., and Anzai et al. teach a hand transmitter microphone or a pocket transmitter microphone, wherein at least one antenna unit is plugged in or screwed on to the hand transmitter microphone or the pocket transmitter microphone (paragraph 0008).

But, AAPA, Courtney et al., and Anzai et al. do not expressly disclose further comprising a receiver, and wherein at least one antenna unit is plugged in or screwed on to the receiver.

Kawasaki et al. teach a wireless microphone system having a transmitter microphone (101 of Fig. 1) and a receiver (102 of Fig. 1), where obviously antenna unit could be replaceable in view of Courtney's teaching (column 7 lines 20-29) for tuned frequency usage.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate a receiver for reception taught by Kawasaki et al. into the wireless microphone system of AAPA, Courtney et al., and Anzai et al., in order to receive microphone transmission with tuned frequency component.

6. Claim 36 is rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant Admitted Prior Art (hereafter AAPA, citations refer to published specification) in view of Courtney et al. (US Patent#6469658), Anzai et al. (US Patent#5793331), and Conover (US Patent#6418377)

Regarding claim 36, AAPA, Courtney et al., and Anzai et al. teach the limitation of claim 35.

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But, AAPA, Courtney et al., and Anzai et al. do not expressly disclose wherein the antenna unit comprises a visible identification, coding or color marking indicating the given frequency range. Conover teach using color coding on antenna, so that purchasers can easily find the appropriate antenna (column 4 line 66 to column 5 line 3), which would have been obvious to one of ordinary skill in the art that the color coding could be modified into usage for frequency range coding in view Courtney et al.'s teaching on replaceable antenna unit for different frequency usage.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate using color coding on antenna product taught by Conover into the HF transmitter of AAPA, Courtney et al., and Anzai et al., in order to provide legend for purchasers to find the appropriate antenna unit.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ZHIYU LU whose telephone number is (571)272-2837. The examiner can normally be reached on Weekdays: 9AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duc Nguyen can be reached on (571) 272-7503. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Zhiyu Lu/ Examiner, Art Unit 2618

/Z. L./ Examiner, Art Unit 2618 February 2, 2009

/Duc Nguyen/ Supervisory Patent Examiner, Art Unit 2618